

Title (en)  
ENHANCED PUSH-PULL (EPP) WAVEFORMS FOR ACHIEVING PRIMARY COLOR SETS IN MULTI-COLOR ELECTROPHORETIC DISPLAYS

Title (de)  
VERBESSERTE GEGENTAKT (EPP)-WELLENFORMEN ZUR ERZIELUNG PRIMÄRER FARBMENGEN IN MEHRFARBIGEN ELEKTROPHORETISCHEN ANZEIGEN

Title (fr)  
FORMES D'ONDE DE TYPE TIRER-POUSSER AMÉLIORÉES (EPP) POUR OBTENIR DES ENSEMBLES DE COULEURS PRIMAIRES DANS DES ÉCRANS ÉLECTROPHORÉTIQUES MULTICOLORES

Publication  
**EP 4200835 A1 20230628 (EN)**

Application  
**EP 21887709 A 20211101**

Priority  
• US 202063108521 P 20201102  
• US 2021057534 W 20211101

Abstract (en)  
[origin: US2022139340A1] Enhanced push pull driving waveforms for driving a four particle electrophoretic medium including four different types of particles, for example a set of scattering particles and three sets of subtractive particles. Methods for identifying a preferred waveform for a target color state when using a voltage driver having at least five different voltage levels.

IPC 8 full level  
**G09G 3/34** (2006.01); **G02F 1/167** (2019.01); **G09G 3/20** (2006.01)

CPC (source: EP KR US)  
**G02F 1/167** (2013.01 - EP KR US); **G02F 1/1679** (2019.01 - US); **G02F 1/1685** (2019.01 - EP KR US); **G09G 3/344** (2013.01 - EP KR US); **G02F 2001/1678** (2013.01 - EP); **G02F 2201/126** (2013.01 - EP); **G09G 3/2003** (2013.01 - EP); **G09G 2310/06** (2013.01 - EP KR); **G09G 2320/0209** (2013.01 - EP KR US); **G09G 2320/0242** (2013.01 - US)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**US 11620959 B2 20230404**; **US 2022139340 A1 20220505**; AU 2021368779 A1 20230406; AU 2021368779 B2 20240307; AU 2024202428 A1 20240502; CA 3192715 A1 20220505; CN 116490913 A 20230725; EP 4200835 A1 20230628; EP 4200835 A4 20240228; JP 2023546719 A 20231107; JP 2024107194 A 20240808; KR 20230078806 A 20230602; TW 202232454 A 20220816; TW 202343407 A 20231101; TW I795977 B 20230311; TW I845187 B 20240611; US 11798506 B2 20231024; US 12087244 B2 20240910; US 2023206867 A1 20230629; US 2024013740 A1 20240111; WO 2022094384 A1 20220505

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**US 202117515838 A 20211101**; AU 2021368779 A 20211101; AU 2024202428 A 20240413; CA 3192715 A 20211101; CN 202180071682 A 20211101; EP 21887709 A 20211101; JP 2023524896 A 20211101; JP 2024092951 A 20240607; KR 20237015059 A 20211101; TW 110140751 A 20211102; TW 112107798 A 20211102; US 2021057534 W 20211101; US 202318115129 A 20230228; US 202318369991 A 20230919